Name: _____

Rotations Practice

Graph the image. List the coordinates of the image. Then write the rule in proper notation.

1) Rotate \triangle JOH -90° about the origin.





3) Rotate Δ JOH 180° CW about the origin.





4) What do you notice about #2 and #3?

Describe the rotations below using one clockwise rotation and one counter-clockwise rotation.

6)



This rotation could be described

as ______° CW, or ______° CCW



This rotation could be described

as _____° CW, or _____° CCW

7) Say instead of rotating about the origin, you want to see what would happen if you rotated about another point -- say, the point (1, 3). What would that look like?

Rotate the triangle below 90° CW about the point (1, 3).

b) Find the image of point M
rotated 216° clockwise
about point X.

Graph the preimage and image. List the coordinates of the image. Then write the rule in proper notation.

9) △ TRL: T(2, -1), R(4, 0), and L(1, 3) -90° about the origin.



11) \triangle RST: R(2, -1), S(4, 0), and T(1, 3) 90° counter clockwise about the origin.



10) \triangle CDY: C(-4,2), D(-1, 2), and Y(-1, -1) 270° clockwise about the origin.



12) \triangle FUN: F(-4, -1), U(-1, 3), and N(-1, 1) 180° clockwise about the origin.





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8) Say instead of rotating on a coordinate plane, you decide to rotate within a different shape.

a) How many degrees would each rotation be within the pentagon MATRI below? Why?